#### **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.



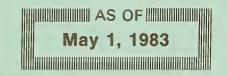
## Water Supply Outlook For Idaho





Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS IDAHO DEPARTMENT OF WATER RESOURCES NOAA, NATIONAL WEATHER SERVICE



#### TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United Stotes presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in lorger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in o West-wide basic data summary and published about October 1 of each year.

### COVER PHOTO: Fresh powder snow on Elephant Mountain, near the West Fork of Hyalite Creek in Montana.

#### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE ADDRESS

Alaska Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504

Arizono Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025

Colorado (N. Mex.) P. O. Box 17107, Denver, Colorado 80217

Idaho Room 345, 304 N. 8th. St., Boise, Idaho 83702

Montana P. O. Box 98, Bozeman, Montana 59715

Nevoda P. O. Box 4850, Reno, Nevada 89505

Oregon 1220 S. W. Third Ave., Portland, Oregon 97204

Utah 4420 Federal Bldg., 125 South Stote St., Salt Lake City, Utah 84138

Washington 360 U. S. Court House, Spokane, Washington 99201

Wyoming P. O. Box 2440, Casper, Wyoming 82602

#### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.



## WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

#### Issued by

PETER C. MEYERS

CHIEF SOIL CONSERVATION SERVICE WASHINGTON. D C

#### Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST SOIL CONSERVATION SERVICE BOISE, IDAHO

In Cooperation with

#### A. KENNETH DUNN

DIRECTOR IDAHO DEPARTMENT OF WATER RESOURCES

#### Report prepared by

GERALD A. BEARD, Snow Survey Supervisor
PETER L. PALMER, Hydrologist
PAUL K. BROWN, JR., Electronics Technician
KATHERN G. WOOTTON, Statistical Assistant
SOIL CONSERVATION SERVICE

SOIL CONSERVATION SERVICE SNOW SURVEY SECTION ROOM 345, 304 N. 8th. ST. BOISE, IDAHO 83702



#### WATER SUPPLY OUTLOOK for IDAHO









GENERAL STATEMENT FOR MAY 1, 1983

The May 1 snow surveys show little change in the snowpack condition from the first of April except in the Bear River drainage in the extreme southeastern part of the State where significant increases were reported. Snowpack conditions range from a low of 73 percent of average on the Clearwater River drainage in northern Idaho to a high of 174 percent of average on the Little Wood River drainage in south central Idaho. One exception is the Owyhee River drainage which shows 323 percent of normal.

Precipitation across Idaho for April averaged 95 percent of normal with the least amount being across the mid-portion of the State with the north and south being heavier. Grangeville had only 37 percent while Boise had 201 percent. The water year is at 128 percent of normal with a range of from 80 percent at Grangeville to 180 percent at Ketchum.

The temperature range for April was from near normal in the North to five degrees below normal at Twin Falls.

Water supplies are expected to be near normal to well above normal across southern Idaho and near to below normal in the northern part of the State. The Clearwater and Spokane river drainages in northern Idaho are forecast to be 79 percent and 80 percent respectively. Forecasts in the southern part of the State range from 85 percent of average for the Snake near Heise to 180 percent of average for Magic Reservoir inflow. The net inflow to Owyhee Reservoir in eastern Oregon is 220 percent of normal.

The combination of melting snow and near normal precipitation have kept soil moisture conditions near the saturation level in southern Idaho while soils in the northern part are beginning to dry out.

Most reservoir levels remain above normal for the first of May and many reservoirs are now beginning to fill with some smaller reservoirs already nearing capacity. Most all reservoirs are expected to fill by mid-June.

The potential for high volume flows and possible flooding continues to exist on several major streams and their tributaries in southern Idaho. Peak flows are estimated to be at or above flood stage on the Big Wood, Little Wood, Payette, Bruneau, Portneuf, Henrys Fork and Salmon River at Salmon.

VALLEY PRECIPITATION  $\underline{1}/$  Division Averages and Departures In Inches

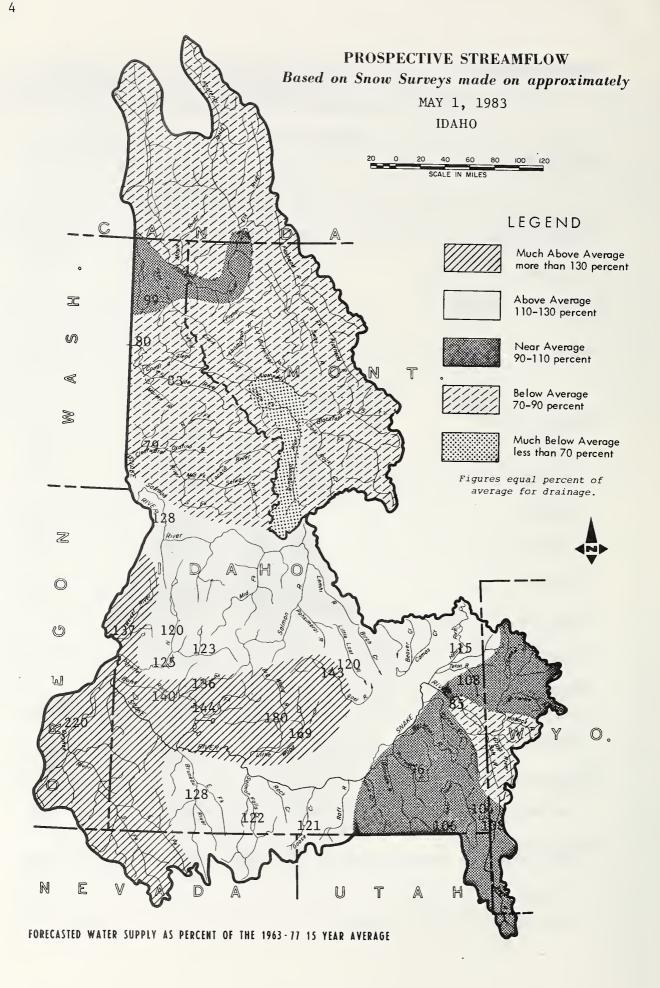
		Vinter 1 1983		- Winter - April 1983
		Departure <u>2</u> /		Departure <u>2</u> /
Kootenai, Canada & U.S.	2.17	+ .55	16.13	+ .12
Flathead	1.30	34	10.68	- 1.69
Clark Fork	.56	77	7.37	- 1.96
Pend Oreille-Spokane	1.50	32	20.68	+ 1.31
Upper Snake	1.70	09	12.16	+ .26
Snake River Plain	.95	04	7.06	+ .99
Salmon-Payette-Boise	1.71	+ .28	16.95	+ 3.73
Clearwater	1.42	- 1.70	16.22	- 4.78
Owyhee-Malheur	1.57	+ .82	9.77	+ 3.35

<sup>1/</sup>Preliminary analysis and data by the National Weather Service and Meteorlogical Service of Canada.

<sup>2</sup>/Departure from 15-year (1963-1977) drainage division average.

STREAMFLOW FORECASTS			THIS YEAR		PAST RECORD		
BASIN, STREAM and/or FO	RECAST POINT	F OR E	Percent of Average	FORECAST	THOUSAND A	ACRE FEET  Average +	
		Acre Feet	Average	PERIOD	Last Year	Average	
		UPPER COLUMBIA BA	ASIN				
KOOTENAI RIVER							
Leonia	(at)	7620	94	May-Sep		8116	
		6520	93	May-Jul		6966	
PEND OREILLE RIVER Clark Fork River							
Whitehorse Rapids	(at)	8960	73	May-Sep		12207	
,		7990	73	May-Jul		10945	
Priest River Priest River 1/	(nr)	714	99	May-Sep		723	
SPOKANE RIVER	, ,					, = 5	
Post Falls 2/	(at)	1640	80	May-Sep		2052	
		1560	80	May-Ju1		1944	
St. Joe River Calder	(at)	878	83	May-Sep		1053	
		822	84	May-Ju1		984	
		SNAKE RIVER BASI	N				
SNAKE RIVER - MAIN STEM							
Moran <u>3/</u> Palisades Inflow 3/	(at)	849 34 <b>7</b> 7	94 90	Apr-Sep Apr-Sep		903 3863	
Heise <u>4</u> /	(nr)	3240	85	May-Sep		3824	
Blackfoot 5/	(nr)	2725	85 91	May-Jul		3206	
Black100t 3/	(nr)	4710 3780	91	May-Sep May-Jul		5176 4 <b>1</b> 43	
Henrys Fork							
Ashton <u>6</u> /	(nr)	720	114	May-Sep		634	
Rexburg 7/	(nr)	510 1580	115 114	May-Jul May-Sep		445 1387	
~ <del>-</del>	, ,	1205	114	May-Ju1		1055	
Teton		100					
South Leigh Creek	(ab)	193 138	108 108	May-Sep May-Jul		179 128	
Portneuf River							
Topaz	(at)	68	96	May-Sep		71	
Oakley Reservoir Inflow		29	121	May-Sep		24	
		25.5	121	May-Jul		21	
Salmon Falls Creek San Jacinto	(nr)	77	122	May-Sep		63	
	(,	71	122	May-Jul		58	
Bruneau River							
Hot Springs	(nr)	235 219	128 128	May-Sep May-Jul		183 171	
Little Lost River							
Howe	(nr)	47	120	May-Sep		39	
Wet Creek	(b1)	35 44.5	121 120	May-Jul May-Sep		29 37	
WEL CIEER	(01)	36	120	May-Jul		30	
Big Lost River						0.5 /	
Howell Ranch	(at)	305 274	143 145	May-Sep May-Jul		214 189	
		209	145	May-Jun		144	
Mackay <u>8</u> /	(nr)	273	143	May-Sep		191	

<sup>(</sup>c) Assuming normal meteorological conditions.



TREAMFLOW FORECASTS		THIS YEAR		PAST RECORD			
The state of the s	FOR	FORECAST C			THOUSAND ACRE FEET		
BASIN, STREAM and/or FOI	RECAST POINT	Thousand	Percent of Average	FORECAST	Last Year	Average +	
		Acre Feet	Average	PERIOD	Castical	Average	
Big Wood River							
Magic Reservoir		412	180	May-Sep		229	
Inflow 9/		383	180	May-Jul		213	
Little Wood River							
Carey <u>10</u> /	(nr)	135	169	May-Sep		80	
· —		120	167	May-Jul		72	
Boise River							
Twin Springs	(nr)	840	136	May-Sep		616	
• 0	· ´	770	138	May-Jul		559	
Boise 11/	(nr)	1860	140				
B013C <u>11</u> /	(111)	1700	141	May-Sep May-Jul		1326 1206	
		2,00	1.11	nay sar		1200	
South Fork Anderson Dam 12/	(at)	736	144	May-Sep		511	
inderson ban <u>iz</u>	(ac)	680	144	May-Jul		472	
0 1 7:				, and the second			
Owyhee River							
Gold Cr., Nv <u>13</u> /	(nr)	45	200	Apr-Jul		22	
Owyhee, Nv <u>13</u> /	(nr)	155	194	Apr-Jul		80	
Lake Owyhee		493	220	May-Sep		224	
net inflow <u>14</u> /		452	229	May-Jul		197	
Payette River							
Horseshoe Bend 15/	(nr)	1955	125	Mary Con		1567	
norsesnoe bend 15/	(111)	1785	125	May-Sep May-Jul		1428	
North Fork		2,05	223	ina) our		1420	
Cascade 16/	(at)	575	120	May-Sep		480	
<del>-</del>		535	120	May-Jul		445	
Banks <u>16</u> /	(nr)	724	121	May-Sep		599	
South Fork Lowman	()	570	100	C		165	
Lowinati	(nr)	570	123	May-Sep		465	
		500	123	May-Jul		406	
Weiser River							
Weiser	(nr)	379	137	May-Jul		276	
Salmon River							
Whitebird	(at)	8420	128	May-Sep		6581	
	(42)	7520	128	May-Jul		5889	
Clearwater River							
Spalding	(at)	5620	7.0	Man. 0		7105	
Sparding	(at)	5620 5120	79 78	May-Sep May-Jul		7125 6645	
			, 0	ndy our		0013	
		GREAT BASIN					
BEAR RIVER							
Harer	(at)	293	108	May-Sep		271	
Montpelier Creek							
Montpelier	(nr)	12.5	104	May-Sep		12	
Cub River				,			
Preston	(nr)	52	106	May-Sep		49	

1/0bserved flow corrected for storage in Priest Lake.

<sup>2/</sup>Observed flow corrected for storage in Coeur d'Alene Lake.
3/Corrected for storage in Jackson Lake.
4/Corrected for storage in Jackson Lake and Palisades.
5/Corrected for storage in Jackson Lake, Palisades, Island Park, Henrys Lake, Grassy Lake and diversions between Heise and Blackfoot.

between Heise and Blackfoot.
6/Corrected for storage in Henrys Lake and Island Park Reservoir.
7/Corrected for storage in Henrys Lake and Island Park, Grassy Lake & diversions between Ashton & Rexburg.
8/Observed flow corrected for storage in Mackay Reservoir.
9/Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine
10/Corrected for storage in Little Wood Reservoir.
11/Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.

<sup>12/</sup>Corrected for storage in Anderson Ranch Reservoir.

<sup>13/</sup>Corrected for storage in Wildhorse Reservoir 14/From Bureau of Reclamation records of inflow.

<sup>15/</sup>Corrected for storage in Cascade and Deadwood Reservoirs.

<sup>16/</sup>Corrected for storage in Cascade Reservoir.

Cooperative forecasts released by Soil Conservation Service and National Weather Service.

<sup>(</sup>c) Assuming normal meteorological conditions.

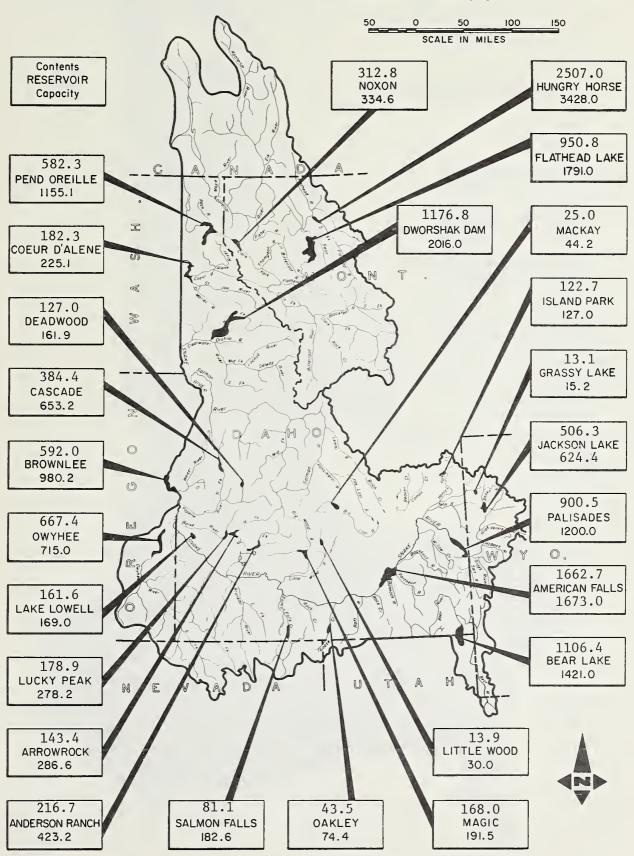
#### RESERVOIR STORAGE (1,000 Ac. Ft.)

	USABLE CAPACITY		MEASURED (First of Month)			
RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	1963-77 AVERA		
UPPER COLUMBIA BASIN						
Clark Fork - Pend Oreille						
Hungry Horse	3428.0	2507.0	1884.0	1896.0		
Flathead	1791.0	950.8	943.6	915.3		
Pend Oreille Noxon	1155.1 334.6	582.3 312.8	516.6 321.9	483.0 141.7		
Spokane	33110	31210	32117	2127,		
Coeur d'Alene	225.1	182.3	247.5	238.4		
SNAKE BASIN						
Snake						
Jackson Lake	624.4	506.3	319.0	572.3		
Palisades American Falls	1200.0 1673.0	900.5 1662.7	129.5 1619.5	666.3		
Island Park	127.0	122.7	118.6	126.3		
Grassy Lake Brownlee	15.2 980.2	13.1 592.0	12.7 408.2	11.1 406.4		
	700.2	372.0	400.2	400.4		
Goose-Trapper Creeks	7/ /	/.a =	20.0	27.0		
Oakley	74.4	43.5	28.8	37.8		
Salmon Falls Creek	102 (	01 1	55.4	81.0		
Salmon Falls	182.6	81.1	33.4	81.0		
Big Lost	44.0	25.0	2/ 2	2/ 2		
Mackay	44.2	25.0	34.3	34.0		
Big Wood	101.5	160.0	170.0	170 7		
Magic	191.5	168.0	178.8	172.7		
Little Wood	00.0	10.0	15.0	27.5		
Little Wood	30.0	13.9	15.0	24.5		
Fish Creek			1/ /			
Carey Valley	14.4	13.9	14.4			
Boise						
Anderson Ranch	423.2	216.7	239.4	289.3		
Arrowrock Lucky Peak	286.6 278.2	143.4 178.9	129.1 50.6	213.2 134.1		
Lake Lowell (Deer Flat)	169.0	161.6	161.8	151.2		
Dwyhee						
0wyhee	715.0	667.4	692.3	591.2		
Payette						
Cascade	653.2	384.4	319.9	330.9		
Deadwood	161.9	127.0	112.3	98.2		
<u>Weiser</u>						
Mann Creek	11.1	9.4	11.2			
Clearwater						
Dworshak	2016.0	1176.8	283.5			
GREAT BASIN						
Bear						
Bear Lake	1421.0	1106.4	1003.7	1095.0		

#### RESERVOIR STORAGE

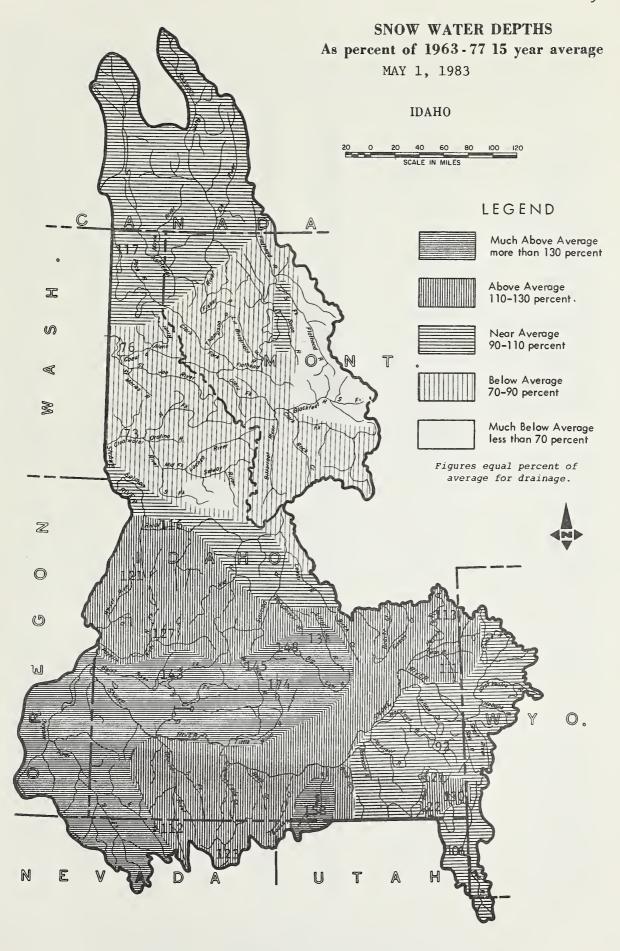
USABLE CONTENTS (1,000 Acre Feet)

MAY 1983



#### COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO.OF COURSES AVERAGED	THIS YEARS SNOW WATER  EXPRESSED AS PERCENT OF  LAST YEAR 1963-77 AVERAGE		
		LAST TEAM		
UPPER COLUMBIA RIVER BASIN				
Kootenai River	49	71	86	
Pend Oreille River	132	65	. 78	
Clark Fork River	90	59	74	
Flathead River	42	75	84	
Priest River	5 - 6	95	117	
Spokane River	8 - 9	75	76	
Hayden Creek	-	-	-	
LOWER SNAKE RIVER BASIN				
Palouse River	-	-	-	
Clearwater River	19 - 20	66	73	
Salmon River	15 - 18	86	116	
Lemhi River	-	-	-	
MIDDLE SNAKE RIVER BASIN - Northside				
Little Lost River	4 - 6	98	131	
Big Lost River	4	101	148	
Fish Creek	-,	-	176	
Little Wood River Big Wood River	10 - 11	121 96	174 145	
Boise River	11 - 13	100	143	
Canyon Creek	-	- /		
Payette River	12 - 15	92	127	
Payette River Weiser River	12 - 13	98	121	
Mann Creek	_	_	_	
MIDDLE SNAKE RIVER BASIN - Southside				
Raft River	1	104	158	
Goose-Trapper Creek Salmon Falls Creek	4 - 5	- 117	123	
Bruneau River	1	99	112	
Owyhee River	1	143	323	
Jordan Creek	_	-	_	
UPPER SNAKE RIVER BASIN				
	1.5	73	100	
Snake Basin - Above Palisades Reservoir Camas-Beaver Creeks	15	73 -	100	
Henrys Fork River	6 - 7	84	113	
Teton River	7 – 9	81	111	
Willow Creek	3	113	92	
Blackfoot River Portneuf River	1 - 2	76 -	92	
GREAT BASIN				
	4	82	106	
Bear River - Upper Bear River - Lower	14	62 72	110	
Montpelier Creek	6	77	130	
Mink Creek	1	85	121	
Cub River	3	72 -	122	
Malad River	-	-		
			,	
			-	



SNOW					THIS YEAR		PAST RE	
DRAINAGE E	BASIN a	nd or SNOW CDURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Warer Conter	
NAME &	DRAI	NAGE	Elevation	of Survey	(inches)	(inches)	Last Year	Average
Above Burke		Coeur d'Alene	4100	4/28	29	13.4	20.6	19.7
Atlanta Summit		Boise	7600	4/26	114	49.0		36.6
Atlanta Townsite		Boise	5370	4/26	18	7.2	7.5	
Bad Bear		Boise	4940	4/29	14	6.0	8.8	6.8
Banner Summit		Payette	7040	4/26	84	35.3	43.6	
Beagle Springs	(Mt)	Beaverhead	8850	4/29	36	11.5	45.0	
Sear Basin	(FIL)	Little Salmon	5350	4/28	55	22.8	21.2	
Bear Canyon								
*		Big Lost	7900	4/27	69	27.0	28.1	18.9
Sear Mountain		Clark Fork	5400	4/27	141	69.4	83.9	67.7
Senton Meadow		Priest	2370	4/29	0	0.0	0.0	0.0
Senton Spring		Priest	4920	4/29	39	19.5	17.7	16.7
sig Creek Summit		Salmon	6580	4/29	107	46.7	55.3	37.8
Sig Springs		Henrys Fork	6400	4/29	38	16.8	20.6	17.7
Birch Creek		Willow	6800	4/28	16	6.2	0.0	
Black Bear	(Mt)	Madison	7950	4/28	104	48.5	59.6	
Slue Ridge		Blackfoot	6780	4/28	53	24.3	24.5	
Bogus Basin		Payette	6340	4/29	86	39.8	27.5	24.0
logus Basin Road		Boise	5540	4/29	0	0.0	0.0	0.4
Sone		Willow	6200	4/28	0	0.0		
Boulder Creek		Weiser	5440	4/27	46	20.4	22.4	16.8
reezy Saddle		Clearwater	5010	4/28	59	21.8	30.2	
Brockman Station		Willow	6430	4/28	17	7.1		
Brundage Mountain		Little Salmon	7560	4/29	133	62.0	65.4	52.4
					51	20.4	65.4 	52.4
runo Creek		Squaw Creek	7920	4/29				
Buck Meadows		Selway	5650	4/28	53	18.6	34.7	29.9
Cayuse Airstrip		Clearwater	3500	4/28	0	0.0	0.8	1.0
Coolwater Mountain		Lochsa	6030	4/28	89	32.7	49.3	35.5
Copper Basin		Big Lost	7640	4/27	40	14.9	13.5	8.5
Copper Ridge		Coeur d'Alene	4820	4/25	43	20.5	16.7	25.7
ouch Summit		Boise	6840	4/30	58	26.7	18.0	14.9
Cozy Cove		Deadwood	5380	4/26	32	12.7	13.8	10.7
Crater Meadows		Clearwater	5960	4/28	91	35.6	49.4	47.8
rawford Ranger Sta.		Payette	4860	4/29	0	0.0	0.0	0.4
Crooked Fork		Lochsa	3610	4/29	0	0.0	7.8	3.5
Cub River Ranger Sta		Cub	5450	4/28	0	0.0	0.6	0.0
Parby Canyon	(Wy)	Teton	8250	4/28	69	28.3		25.5
eadline	("))	Salmon Falls	7400	5/3	63	29.9	21.9	21.7
Deadline South		Salmon Falls	7450	5/3	79	37.4	24.1	
				4/26	34	13.3	14.2	8.6
Deadwood Airstrip		Deadwood	5360	*.			68.9	48.2
Deadwood Summit		Deadwood	6860	4/26	127	58.7		
Oollarhide Summit		Big Wood	8420	4/27	95	38.2	39.4	24.3
Elk Butte		Clearwater	5550	4/28	62	23.8	32.4	34.1
Emigrant Summit		Bear	7390	4/28	74	30.1	35.3	24.9
Gairview Guard Sta.		Little Lost	6750	4/28	0	0.0	0.0	
Fish Lake Airstrip		Lochsa	5650	4/28	77	29.0	45.2	41.4
ishpole Lake		Big Lost	9300	4/27	99	40.7		
orty-nine Meadows		Clearwater	4830	4/28	54	20.6	28.0	26.9
reds Mountain	(Wy)	Teton	8150	4/29	77	29.7	34.9	21.1
Galena		Big Wood	7440	5/2	54	23.1	27.6	15.9
Galena Snotel		Big Wood	7470	5/2	67	28.3	29.2	
Galena Summit		Big Wood	8780	5/2	88	35.2	36.2	26.9
Garfield Ranger Sta.		Little Wood	6560	4/27	27	10.9	6.4	2.6
Gibbons Pass	(Mt)	Bitterroot	7100	4/28	57	25.0	31.6	25.3
Giveout	()	Montpelier	6860	4/28	30	11.1	16.4	6.9
		Montpelier	6930	4/28	21	7.5		
Giveout Snotel	(NT-r)	•			68	26.8	26.5	20.8
Goat Creek	(Nv)	Salmon Falls	8880	5/3 4/28		39.6	54.4	51.9
Goat Lake		Clearwater	6500	4/28	100			J1.9
Graham Guard Station	1	Boise	5690	4/26	33	14.1	16.3	
raham Ranch		Big Wood	6270	5/2	40	17.5	18.4	9.2
Granite Peak		St. Joe	6000	4/28	99	37.0	50.0	47.6
Grassy Lake	(Wy)	Henrys Fork	7265	4/29	85	37.8	48.2	36.4
Hemlock Butte		Clearwater	5810	4/28	96	37.8	55.6	52.4
Hilts Creek		Little Lost	8000	4/29	51	18.4	21.0	
Heart Lake Trail	(Mt)	Clark Fork	4800	4/30	20	9.0	24.2	23.8
Hoodoo Basin	(Mt)	Clark Fork	6000	4/30	96	45.7	68.5	55.6
loodoo Creek	(Mt)	Clark Fork	5900	4/30	90	41.4	61.8	52.0
Howell Canyon	(116)	Marsh Creek	7980	5/2	80	37.4	36.1	23.7
			4250	4/28	21	11.0	14.4	
Humboldt Gulch		Coeur d'Alene				19.0	18.3	
Hyndman Creek		Big Wood	7440	4/27	-48			
Idaho City Townsite		Boise	4000	4/29	0	0.0	0.0	39.9
Indian Meadows		Teton	8240	4/28	110	48.2	53.1	
Island Park		Henrys Fork	6290	4/29	32	14.4	15.7	11.4

<sup>(</sup>b) 1963-1977, 15 year period. \* Estimated 1963-77 15 Year Average. (A) Aerial observation Water content estimated.

INPAINAGE BASIN and or SNOW COLLESS				THIS YEAR		PAST RECORD		
DRAINAGE BASIN and or SNOW COURSE			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Warer Content (inches)		
NAME	& DRA	INAGE	Elevation	or survey	(menes)	(menes)	Last Year	Average
Jackpine Creek	(Wy)	Teton	7350	4/28	62	25.0	26.1	24.1
Jackson Peak	( ) /	Boise	7070	4/26	94	39.4	42.1	26.8
ake Fork		Payette	5290	4/30	32	12.9	18.0	14.1%
ava Creek		Willow	7350	4/28	42	17.6		
emhi Pass	(Mt)	Beaverhead	7480	4/29	15	5.0	11.3	9.2
emhi Ridge	(Mt)	Beaverhead	8100	4/29	26	8.6	13.9	10.6%
ittle Beaver	Ì	Montpelier	6970	4/28	38	14.0	18.6	11.4
olo Pass		Lochsa	5240	4/29	34	15.8	33.4	31.4
ookout		Coeur d'Alene	5140	4/28	69	30.6	40.4	35.4
ost Garfield		Little Lost	6600	4/28	0	0.0	0.0	0.0
ost Horse	(Mt)	Bitterroot	5940	4/27	62	26.8	45.2	35.2
ost Lake		Clearwater	6110	4/28	123	49.4	63.6	62.5
ost-Wood Divide		Big Lost	7900	4/27	74	30.0	32.8	24.8*
ower Home Canyon		Montpelier	7640	4/28	36	12.6	16.8	11.1%
ower Sands Creek		Coeur d'Alene	3120	4/25	31	13.1	15.9	18.3
lagic Mountain		Rock Creek	6880	5/3	54	22.1	22.3	18.8
lascot Mine		Big Wood	7780	4/27	57	22.4	22.9	15.5%
kcRenolds Reservoir		Teton	6720	4/28	51	19.0		19.8
ill Creek Summit		Salmon	8800	4/29	71	28.6	35.9	25.9
lontpelier Creek		Montpelier	6540	4/28	10	4.2	3.4	1.2%
Moonshine		Little Lost	7440	4/28	31	11.0	10.3	9.6
loores Creek Summit		Boise	6100	4/29	93	44.0	43.5	32.6
loose Creek		North Fork Salmon	6200	4/29	37	14.6	21.2	16.6
lorgan Creek		Salmon	7600	4/28	37	14.4	19.7	13.9
Nountain Meadows		Selway	6360	4/28	41	13.1	27.0	26.3
lount Baldy		Big Wood	8920	4/26	96	36.2	38.4	23.6
lud Creek		Willow	7100	4/28	69	29.1	28.4	25.0
luldoon		Little Wood	6320	4/27	9	3.3	0.0	0.6%
lez Perce Pass	(Mt)	Bitterroot	6570	4/25	29	12.0	24.1	19.0
acksaddle Spring	(110)	Teton	8200	4/28	83	34.0		
hillips Bench	(Wy)	Teton	8200	4/28	77	30.0	46.0	31.5
ierce Ranger Sta.	(wy)	Clearwater	3080	4/29	0	0.0	0.0	1.9
ine Creek Pass		Teton	6810	4/29	35	15.1	22.0	14.8
ole Creek Ranger S		Jarbidge	8360	5/3	68	28.4	29.1	25.8
Road Creek	La.	Boise	5380	4/27	0	0.0		
				4/28	52	23.0	21.5	17.9
lock Flat Summit		Payette	5310	4/26	22	9.1	21.5	17.9
age Creek Saddle		Hayden	4080				40.3	29.3
avage Pass		Lochsa	6170	4/29	54	21.7		
Sawmill Canyon		Little Lost	7000	4/29	14	5.4	6.3	3.8
Sawtell Mountain		Henrys Fork	8720	4/29	116	51.7	56.4	37.1%
chweitzer Basin		Pend Oreille	6090	4/28	131	69.5	66.4	
chweitzer Bowl		Pend Oreille	4800	4/28	79	36.3	40.1	26.8
chweitzer Ridge		Pend Oreille	6200	4/28	126	58.7	61.3	47.5
ecesh Summit		Payette	6520	4/30	91	42.4	55.7	36.9
Shanghai Summit		Clearwater	4570	4/28	38	13.2	25.2	23.1
heep Mountain		Willow	6570	4/28	33	12.8	10.0	7 2
herwin		St. Maries	3200	4/29	0	0.0	10.0	7.2
kitwish Ridge		Coeur d'Alene	5110	4/25	68	32.1		17.04
lug Creek Divide		Blackfoot	7230	4/27	43	15.6	21.2	17.0%
mith Creek		Kootenai	4800	4/28	106	51.0	58.0	47.4
oldier Ranger Sta.		Big Wood	5740	4/30	14	6.9	5.7	1.1
omsen Ranch		Willow Creek	6840	4/27	36	14.5	18.3	
outh Mountain		Jordan-Owyhee	6500	5/1	52	22.9	16.0	7.1
quaw Flat		Weiser	6240	4/30	73	32.8	30.4	26.1
quaw Meadow		Payette	5900	4/30	89	47.4	53.7	36.1
tate Line		Teton	6660	4/29	32	13.2	14.9	10.7
tickney Mill		Big Lost	7430	4/27	40	14.8	11.8	6.5
wede Peak		Little Wood	7640	4/27	64	26.5	21.3	16.7
arghee Pass		Henrys Fork	6980	4/29	36	14.2	17.3	16.2
eton Pass W.S.	(Wy)	Teton	7740	4/28	73	30.2	38.2	28.9
rinity Mountain		Boise	7770	4/26	129	61.7	63.3	44.1
welve Mile Creek	(Mt)	Bitterroot	5600	4/27	21	8.2		
win Lakes	(Mt)	Bitterroot	6510	4/27	79	35.0		
Ipper Home Canyon		Montpelier	8560	4/28	71	27.6	35.3	24.5
alley View		Henrys Fork	6680	4/29	39	16.3	21.1	14.5
ienna Mine		Salmon	8960	4/27	108	47.6	58.6	39.9
West Branch		Weiser	5560	4/27	53	24.0	25.9	
let Creek Summit		Little Lost	7680	4/29	52	19.1	17.4	13.8
Thiskey Flat		Montpelier	6960	4/28	20	7.8	9.6	4.5
White Elephant		Henrys Fork			74	32.0	38.0	
			7710	4/29	74	32.0	30.0	

SNOTEL <sup>1</sup> /			Pillow	Precipitation
			Snow Water	Water Year
			Equivalent	(Accumulative)
Data Site Name	Drainage	Date	(inches)	(inches)
			•	
Atlanta Summit	Boise	5/1	Not Available	49.7
Banner Summit	Payette	5/1	34.2	40.5
Bear Basin	Little Salmon	5/1	10.3	Not Available
Bear Canyon	Big Lost	5/1	27.2	33.7
Bear Mountain	Clark Fork Mann Creek	5/1	47.7	78.2
Bear Saddle		5/1	9.7	42.4
Bennett Mountain	Canyon Creek	5/1	27.6	33.4
Big Creek Summit	Salmon	5/1	45.0	50.3
Bostetter Ranger Station	Trapper	5/1	37.2	18.7
Cozy Cove	Deadwood	5/1	14.8	34.6
Crab Creek	Camas-Beaver	5/1	26.0	29.7
Deadwood Summit	Deadwood	5/1	69.6	63.1
Dollarhide Summit	Big Wood	5/1	40.2	42.1
Elk Butte	Clearwater	5/1	37.1	48.4
Emigrant Summit	Bear	5/1	36.3	34.5
Franklin Basin	Cub	5/1	37.7	36.3
Galena	Big Wood	5/1	26.5	27.7
Galena Summit	Big Wood	5/1	30.0	33.3
Garfield Ranger Station	Little Wood	5/1	13.7	23.5
Giveout	Montpelier	5/1	8.9	13.7
Graham Guard Station	Boise	5/1	14.2	32.8
Hilts Creek	Little Lost	5/1	22.4	22.1
Howell Canyon	Marsh Creek	5/1	32.8	36.8
Humboldt Gulch	Coeur d'Alene	5/1	5.3	40.8
Hyndman	Big Wood	5/1	19.4	25.7
Island Park	Henrys Fork	5/1	15.3	26.0
Jackson Peak	Boise	5/1	43.2	46.9
	Lochsa	5/1	6.2	33.8
Lolo Pass	Coeur d'Alene	5/1	28.5	42.9
Lookout			60.8	62.0
Lost Lake	Clearwater	5/1		36.3
Lost-Wood Divide	Big Lost	5/1	35.5	
Magic Mountain	Rock Creek	5/1	24.0	29.4
Meadow Lake	Lemhi	5/1	25.8	23.3
Mill Creek Summit	Salmon	5/1	24.8	26.3
Moonshine	Little Lost	5/1	14.1	18.9
Moores Creek Summit	Boise	5/1	47.4	50.1
Moose Creek	North Fork Salmon	5/1	15.8	23.2
Morgan Creek	Salmon	5/1	14.8	19.2
Mosquito Ridge	Coeur d'Alene	5/1	39.3	50.9
Mountain Meadows	Selway	5/1	20.1	27.0
Mud Flat	Owyhee	5/1	Not Available	Not Available
Oxford Spring	Malad	5/1	10.2	24.2
Prairie	Boise	5/1	0.0	26.1
Savage Pass	Lochsa	5/1	21.3	29.2
Schweitzer Basin	Pend Oreille	5/1	70.2	52.3
Secesh Summit	Payette	5/1	46.9	Not Available
Shanghai Summit	Clearwater	5/1	15.9	40.4
Sheep Mountain	Willow	5/1	Not Available	21.8
-	St. Maries	5/1	0.0	33.4
Sherwin	Blackfoot	5/1	20.1	24.8
Slug Creek Divide			12.1	19.8
Somsen Ranch	Willow Creek	5/1		37.0
South Mountain	Jordan-Owyhee	5/1	30.7	45.0
Squaw Flat	Weiser	5/1	41.6	
Stickney Mill	Big Lost	5/1	13.2	17.1
Sunset	Coeur d'Alene	5/1	34.0	Not Available
Swede Peak	Little Wood	5/1	24.1	33.8
Trinity Mountain	Boise	5/1	59.6	60.6
Vienna Mine	Salmon	5/1	49.5	47.1
West Branch	Weiser	5/1	25.9	44.3
White Elephant	Henrys Fork	5/1	38.0	41.7
Wildhorse Divide	Portneuf	5/1	6.6	30.1

#### States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

AL MIN

#### Federal:

- U. S. Army Engineers
- U. S. Department of Agriculture Forest Service ESCS Crop Reporting Service SEA Agricultural Research
- U. S. Department of Commerce NOAA, National Weather Service
- U. S. Department of the Interior
  Bonneville Power Administration
  Water and Power Resources Service
  Fish and Wildlife Service
  Water Resources Division, Geological Survey
  National Park Service
  Bureau of Land Management

#### PUBLIC UTILITIES

Washington Water Power Company Idaho Power Company

#### ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

ROOM 345 304 N. 8TH ST. BOISE, IDAHO 83702 OFFICIAL BUSINESS PENALTY FOR PRIVATE USE, \$300



# FIRST OLISS MA

FEDERAL - STATE - PRIVATE

ECOOPERATIVE SNOW SURVEYS

Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power

"The Conservation of Water begins with the Snow Survey"

generation, navigation,

mining and industry

Dr. Albert Rango, Chief Hydrology Laboratory Rm. 139, Building 007 USDA/ARS/BARC-West Beltsville, Maryland 20705